

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR § 1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 10555-004001	Application No. 09/420,334
	Applicant Steven D. Lacy et al.			
	Filing Date October 18, 1999		Group Art Unit 2174 1631	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
AM	AA	5,143,854	9/1/92	Pirrung et al.			
	AB	5,463,564	10/31/95	Agrafiotis et al.			
	AC	5,571,639	11/5/96	Hubbell et al.			
	AD	5,574,656	11/12/96	Agrafiotis et al.			
	AE	5,714,127	2/3/98	DeWitt et al.			
	AF	6,004,617	12/21/99	Schultz et al.			
	AG	6,045,755	04/04/00	Lebl et al.			
	AH	6,063,339	5/16/2000	Tisone et al.			
	AI						
	AJ						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
AM	AK	WO 96/11878	25 April 1996	PCT				
SL	AL	WO 97/31127	28 Aug. 1997	PCT				
SL	AM	WO 98/15825	16 April 1998	PCT				
	AN							
	AO							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
SLAM	AP	L. A. Corkan et al., "Application of an Automated Chemistry Workstation to Problems in Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1992, vol. 17, pp. 95-105.
SL	AQ	L. A. Corkan and J. S. Lindsey, "Design Concepts for Synthetic Chemistry Workstations", Advances in Laboratory Automation Robotics, 1990, vol. 6, pp. 447-497.
SL	AR	L. A. Corkan and J. S. Lindsey, "Experiment Manager Software for an Automated Chemistry Workstation, Including a Scheduler for Parallel Experimentation", Chemometrics and Intelligent Laboratory Systems; Lab. Info. Mgmt., 1992, vol. 17, pp. 47-74.
SL	AS	J. S. Lindsey, "Automated Workstations for Chemical Synthesis in Japan: A New Paradigm for Pharmaceutical Research", Am. Lab., March 1993, pp. 17, 18, 20.

Examiner Signature <i>Adam Marshall</i>	Date Considered 6-27-03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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(37 CFR § 1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
AMEL	AT	J. S. Lindsey, "A Retrospective on the Automation of Laboratory Synthetic Chemistry", Chemometrics and Intelligent Laboratory Systems: Lab. Inf. Mgmt. 1992, vol. 17, pp. 15-45.
SL	AU	J. S. Lindsey and L. A. Corkan, "Toward High-Performance Parallel Experimentation Machines: Use of a Scheduler as a Quantitative Computer-Aided Design Tool for Evaluating Workstation Performance", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1993, vol. 21, pp. 139-150.
SL	AV	J.-C. Plouvier, et al., "Experiment Planner for Strategic Experimentation with an Automated Chemistry Workstation", Chemometrics and Intelligent Laboratory Systems: Lab. Info. Mgmt., 1992, vol. 17, pp. 75-94.
SL	AW	Advanced Chem. Tech. "Model 496 MOS Multiple Organic Synthesizer", product information, 6 pgs.
AMEL	AX	Advanced Chem. Tech. "Model 348 MPS Multiple Peptide Synthesizer", product information, 1997, 4 pgs.
SL	AY	The Technology Partnership, "Myriad Personal Synthesis: A New Approach to Synthesis", product information, 7 pgs.
SL	AZ	Advanced Chem. Tech. "The ACT Model 90 Tabletop Peptide synthesizer", product information, 2 pgs.
SL	AAA	Asymtek "M-MCM", 1 pg.
SL	ABB	Asymtek "M-ENCAP", product information, 1 pg.
SL	ACC	Asymtek "M-FCOB", product information, 1 pg.
SL	ADD	Bohdan Automation "Solid Phase Extraction Workstation by vacuum"
SL	AEE	Carl Creative Systems "Plate Trak Automated Liquid Handling System", product information, 1 pg.
SL	AFF	Gilson "Better Solutions from Gilson mean...", product information, 1 pg.
SL	AGG	HyPrep "ThePrep Plus System", product information, 1 pg.
SL	AHH	Packard "Packard... The complete solution", product information, 1995, 1 pg.
SL	AII	Packard "MultiPROBE Robotic Liquid Handling Systems" product information, 2 pgs.
SL	AJJ	Hydra "Pooling Samples, Integrating the Hydra, Dispensing Precision",
SL	AKK	Titertek "Quadflex", product information, 2 pgs.
SL	ALL	EG&G Wallac MicroBeta "TriLux Scintillation and Luminescence Counter"
SL	AMM	Zinsser Analytic "LISSY Pipetting with Windows", product information, 1 pg.
SL	ANN	Digitale Mehrkanal Pipette CALIBRA 852 and DIGISCAN, product information, 1 pg.
SL	AOO	Automated Organic Synthesis No Compromises
SL	APP	Biomek 2000 Laboratory Automation Workstation, product information, 2000, 2 pgs.

Examiner Signature

Azdin Mamashev

Date Considered

6-27-03

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~~2774~~ 1631**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
AM SL	AQQ	Chemical Computing Group Inc. "MOE: The Molecular Operating Environment", product information, 1998, 4 pgs., www.chemcomp.com/fdept/prodinfo.htm
SL	ARR	P. Labute, Chemical Computing Group Inc. "MOE: Deployment Strategies", product information, 1998, 6 pgs., www.chemcomp.com/feature/deploy.htm
SL	ASS	Afferent Systems, Inc. "Afferent Products", product information, 1998, 1 pg., www.afferent.com/products/html
SL	ATT	Afferent Systems, Inc. "Afferent Defines Libraries In Terms of Precursors and Reactions", product information, 1998, 3 pgs., www.afferent.com/libraries.html
SL	AUU	Afferent Systems, Inc. "Afferent Uses Virtual Chemistry to Generate Combinatorial Products", 1998, 6 pgs., www.afferent.com/generation.html
SL	AVV	Afferent Systems, Inc. "The Generic Structure Approach", 1998, 3 pgs. www.afferent.com/genric-structure.html
SL	AWW	Afferent Systems, Inc. "Talk Chemistry, Not Robot Language, To Your Synthesis System", 1998, 8 pgs. www.afferent.com/control.html
SL	AXX	Afferent Systems, Inc., "Afferent Analytical TM ", pages 1 of 1, http://www.afferent.com/analytical.html , Copyright© 1996-1999, Last updated 1/28/1999
SL	AYY	Afferent Systems, Inc., "What's new?, IRORI and Afferent enter into Combinatorial Chemistry Collaboration Agreement," pages 1 of 2, http://www.afferent.com/news.html , Copyright© 1996-1999, Last updated 7/3/1999
SL	AZZ	X.D. Xiang et al., "A Combinatorial Approach to Materials Discovery", 23 June 1995, Science, Vol. 268, pp. 1738-1740.
SL	AAAA	Robert F. Service, "High-Speed Materials Design", 25 July 1997, Science, Vol. 277, pp. 474-475.
SL	ABBB	B. Jandeleit, et al., "Combinatorial methods in catalysis", December 1998, Baltzer Science Publishers, Vol. 2, No. 2, pp. 101-123.
SL	ACCC	Linda C. Hsieh-Wilson, et al., "Lessons from the Immune System: From Catalysis to Materials Science", © 1996 American Chemical Society, Vol. 29, pp. 164-170.
SL	ADDD	Gabriel Briceño, et al., "A Class of Cobalt Oxide Magnetoresistance Materials Discovered with Combinatorial Synthesis", 13 October 1995, Science, Vol. 270, pp. 273-275.
SL	AEEE	Xiao-Dong Sun, et al., "Identification and optimization of advanced phosphors using combinatorial libraries", © 1997 American Institute of Physics, Vol. 70, No. 25, pp. 3353-3355.
SL	AFFF	Manfred Baerns, et al., "Chemische Reaktionstechnik", 1987, Georg Thieme Verlag, Stuttgart and New York, pp. 226-236 (with English translation).
SL	AGGG	J.J. Hanak, "The "Multiple-Sample Concept" in Materials Research: Synthesis, Compositional Analysis and Testing of Entire Multicomponent Systems", © 1970 Chapman and Hall Ltd., pp. 964-971.
SL	AHHH	Network Science, "Introducing MDL Screen", downloaded November 15, 2002, < http://www.netsci.org/Science/Screening/feature03.html >
SL	AIII	Eric W. McFarland and W. Henry Weinberg, "Approaches for Rapid Materials Discovery Using Combinatorial Methods", 1998, Mat. Tech. Vol. 13.3, pp. 107-120.
SL	AJJJ	Earl Danielson, et al., "A combinatorial approach to the discovery and optimization of luminescent materials", 30 October 1997, Nature, Vol. 389, No. 30, pp. 944-948.
SL	AKKK	Xiao-Dong Sun, "Solution-Phase Synthesis of Luminescent Materials Libraries", 1997, Advanced Materials, Vol. 9, pp. 1046-1049.

Examiner Signature

Andin Marschof

Date Considered

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MSL	ALLL	Molecular Connection, "MDL's Newsmagazine for Communicating with Customers", July 1998, Vol. 17, No. 3, pp. 2-23.
SL	AMMM	Peter G. Schultz and Xiao-Dong Xiang, "Combinatorial approaches to materials science", 1998, © Current Chemistry ISSN 1359-0286, pp. 153-158.
SL	ANNN	Statistica Vol. IV: Industrial Statistics, Copyright © StatSoft, 1995, pp. 4177-4473.
SL	A000	MDL Screen™ User's Guide, "MDL's Solution for High-Throughput Screening Data Management", © Copyright 1996 by MDL Information Systems, Inc., pp. 1-2 to 14-6.
SL	APPP	MODDE 4.0, "Graphical Software for Design of Experiments", © 1992-1997 Umetri AB, pp. 1-1 to 14-2.
	A000	H.-D. Klein, "Statistische Versuchsplanung", 1995, Nachr. Chem. Tech. Lab. Vol. 43, pp. 1078-1080-1082.
	ARRR	
	ASSS	
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No English
translation
(See page 417)

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Foreign Patent Documents or Published Foreign Patent Applications

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	AC							
	AD							

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<i>AM</i>	AE	H.-D. Klein, "Statistische Versuchsplanung", 1995, Nachr. Chem. Tech. Lab. Vol. 43, pp. 1078, 1080-1082 (with English translation).
	AF	
	AG	
	AH	

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